CLAIMS

What is claimed is:

1. A method for processing a database query on a set of data in a database management system, the method comprising the steps of:

    a) utilizing a query processor to call a data manager and request the return of data from the set of data;

    b) allowing the data manager to locate query-specified data and make a determination regarding the query-specified data;

    c) utilizing the data manager to write the query-specified data to a buffer based on the determination; and

    d) utilizing the query processor to retrieve the query-specified data from the buffer.

2. The method of claim 1 wherein the determination involves determining whether the query-specified data is to be ignored, consumed, or returned to the query processor.

3. The method of claim 2 wherein the determination is that the query-specified data is to be returned to the query processor.

4. The method of claim 3 wherein the set of data is stored on a plurality of pages and step b) further comprises:

    b1) locating a page containing query-specified data;

4   b2)   stabilizing the page; and

5   b3)   accessing the page.

1   5.   The method of claim 4 wherein step c) further comprises:

2   c1)   maintaining the stabilization of the page, while the data manager writes all

3   the query-specified data on the page to the buffer.

1   6.   A system for processing a database query on a set of data in a database management

2   system, the system comprising:

3   a data manager;

4   a query processor comprising means to call the data manager and request the return

5   of data from the set of data;

6   means for allowing the data manager to locate query-specified data and make a

7   determination regarding the query-specified data;

8   means for utilizing the data manager to write the query-specified data to a buffer the

9   data manager to write the query-specified data to a buffer based on the determination; and

10   means for utilizing the query processor to retrieve the query-specified data from the

11   buffer.

1   7.   The system of claim 6 wherein the determination involves determining whether the

2   query-specified data is to be ignored, consumed, or returned to the query processor.

1   8.   The system of claim 7 wherein the determination is that the query-specified data is to

2   be returned to the query processor.

1   9.   The system of claim 8 wherein the set of data is stored on a plurality of pages and the

2   means for allowing the data manager to locate query-specified data further comprises:

3   means for locating a page containing query-specified data;

4   means for stabilizing the page; and

5   means for accessing the page.

1   10.   The system of claim 9 wherein the means for utilizing the data manager to write the

2   query-specified data to a buffer further comprises:

3   means for maintaining the stabilization of the page, while the data manager writes all

4   the query-specified data on the page to the buffer.

1   11.   A computer readable medium containing program instructions for processing a

2   database query on a set of data in a database management system, the program instructions

3   comprising the steps of:

4   a)   utilizing a query processor to call a data manager and request the return of

5   data from the set of data;

6   b)   allowing the data manager to locate query-specified data and make a

7   determination regarding the query-specified data;

8   c)   utilizing the data manager to write the query-specified data to a buffer based

9   on the determination; and

10   d)   utilizing the query processor to retrieve the query-specified data from the

11   buffer. buffer.

1   12.   The computer readable medium of claim 11 wherein the determination involves

2   determining whether the query-specified data is to be ignored, consumed, or returned to the

3   query processor.

1   13.   The computer readable medium of claim 12 wherein the determination is that the

2   query-specified data is to be returned to the query processor.

1   14.   The computer readable medium of claim 13 wherein the set of data is stored on a

2   plurality of pages and step b) further comprises:

3   b1)   locating a page containing query-specified data;

4   b2)   stabilizing the page; and

5   b3)   accessing the page.

1   15.   The computer readable medium of claim 14 wherein step c) further comprises:

2   c1)   maintaining the stabilization of the page, while the data manager writes all

3   the query-specified data on the page to the buffer.